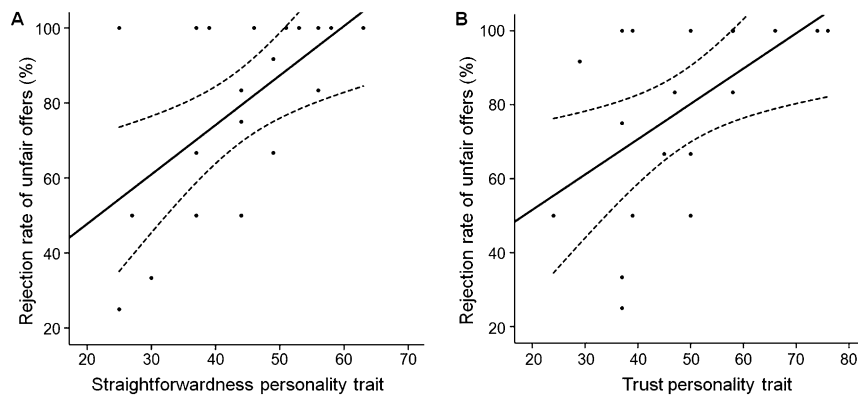
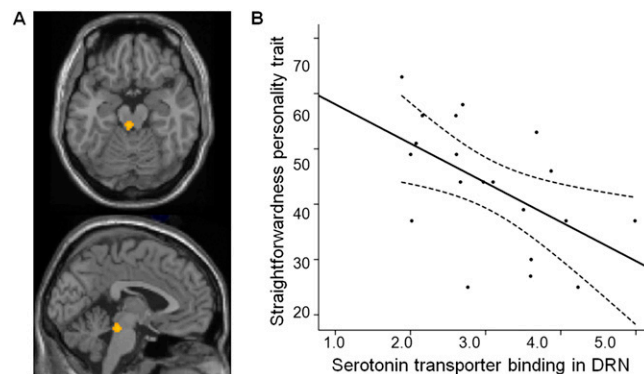


# Supporting Information

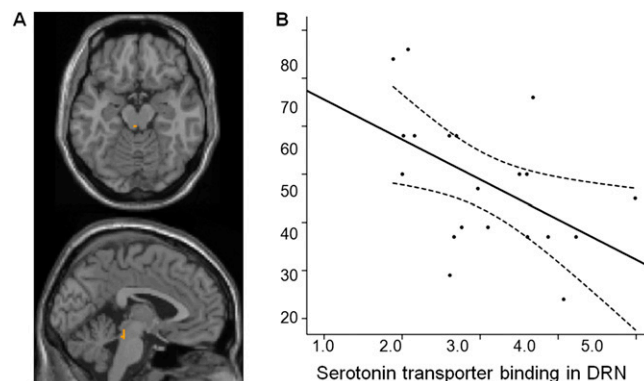
Takahashi et al. 10.1073/pnas.1118687109



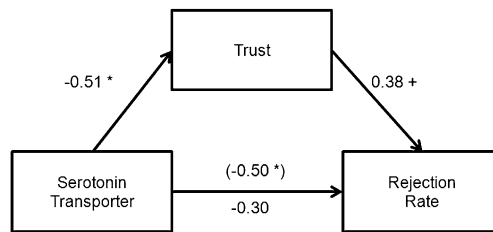
**Fig. S1.** Correlation between rejection rate of unfair offers in the ultimatum game (UG) and personality traits. Plots and regression line of correlation between rejection rate of unfair offers and straightforwardness ( $R = 0.59$ ,  $P = 0.006$ ) (A) and trust ( $R = 0.54$ ,  $P = 0.015$ ) (B). Dashed lines are 95% confidence interval boundaries.



**Fig. S2.** Correlation between straightforwardness personality trait and serotonin (5-HT) transporter (5-HTT) binding in dorsal raphe nucleus (DRN). (A) Statistical parametric mapping (SPM) image showing regions of negative correlation between straightforwardness personality trait and 5-HTT binding in DRN. For the illustration, the height threshold was set at  $P < 0.005$ , uncorrected. (B) Plots and regression line of correlation between straightforwardness personality trait and 5-HTT binding in DRN ( $R = -0.54$ ,  $P = 0.013$ ). Dashed lines are 95% confidence interval boundaries.



**Fig. S3.** Correlation between trust personality trait and 5-HTT binding in DRN. (A) SPM image showing regions of negative correlation between trust personality trait and 5-HTT binding in DRN. For the illustration, the height threshold was set at  $P < 0.005$ , uncorrected. (B) Plots and regression line of correlation between trust personality trait and 5-HTT binding in DRN ( $R = -0.51$ ,  $P = 0.022$ ). Dashed lines are 95% confidence interval boundaries.



**Fig. S4.** Result of mediation analysis including trust as a mediator. The effect of 5-HTT binding in DRN on the rejection rate of unfair offers became nonsignificant when the mediator (trust) was introduced. Mediation effect of trust approached significance (Sobel test =  $-1.47$ ,  $P = 0.07$ , one tailed). \* $P < 0.10$ , \* $P < 0.05$ .